

= differences from F(ab)-12

F (ab)-12 DIQMTQSPSSLSASVGDRVTITCSASQDI SNYLNWYQQ  
 Y0192 DIQ~~I~~TQSPSSLSASVGDRVTITCRANEQ~~I~~SNYLNWYQQ  
 Y0238-3 DIQ~~I~~TQSPSSLSASVGDRVTITCRANEQ~~I~~SNYLNWYQQ  
 Y0239-19 DIQ~~I~~TQSPSSLSASVGDRVTITCRANEQ~~I~~SNYLNWYQQ  
 Y0313-2 DIQ~~I~~TQSPSSLSASVGDRVTITCRANEQ~~I~~SNYLNWYQQ

CDR-L1

F (ab)-12 KPGKAPKVLIYFTSSLHSGVPSRFSGSGSGTDFLTIS  
 Y0192 KPGKAPKVLIYFTSSLHSGVPSRFSGSGSGTDFLTIS  
 Y0238-3 KPGKAPKVLIYFTSSLHSGVPSRFSGSGSGTDFLTIS  
 Y0239-19 KPGKAPKVLIYFTSSLHSGVPSRFSGSGSGTDFLTIS  
 Y0313-2 KPGKAPKVLIYFTSSLHSGVPSRFSGSGSGTDFLTIS

CDR-L1 70  
 F (ab)-12 SLQPEDFATYYCQQYSTVPWTFGQGTTKVEIKRTV (SEQ ID NO:94)  
 Y0192 SLQPEDFATYYCQQYSTVPWTFGQGTTKVEIKRTV (SEQ ID NO:95)  
 Y0238-3 SLQPEDFATYYCQQYSTVPWTFGQGTTKVEIKRTV (SEQ ID NO:95)  
 Y0239-19 SLQPEDFATYYCQQYSTVPWTFGQGTTKVEIKRTV (SEQ ID NO:95)  
 Y0313-2 SLQPEDFATYYCQQYSTVPWTFGQGTTKVEIKRTV (SEQ ID NO:95)

CDR-L3

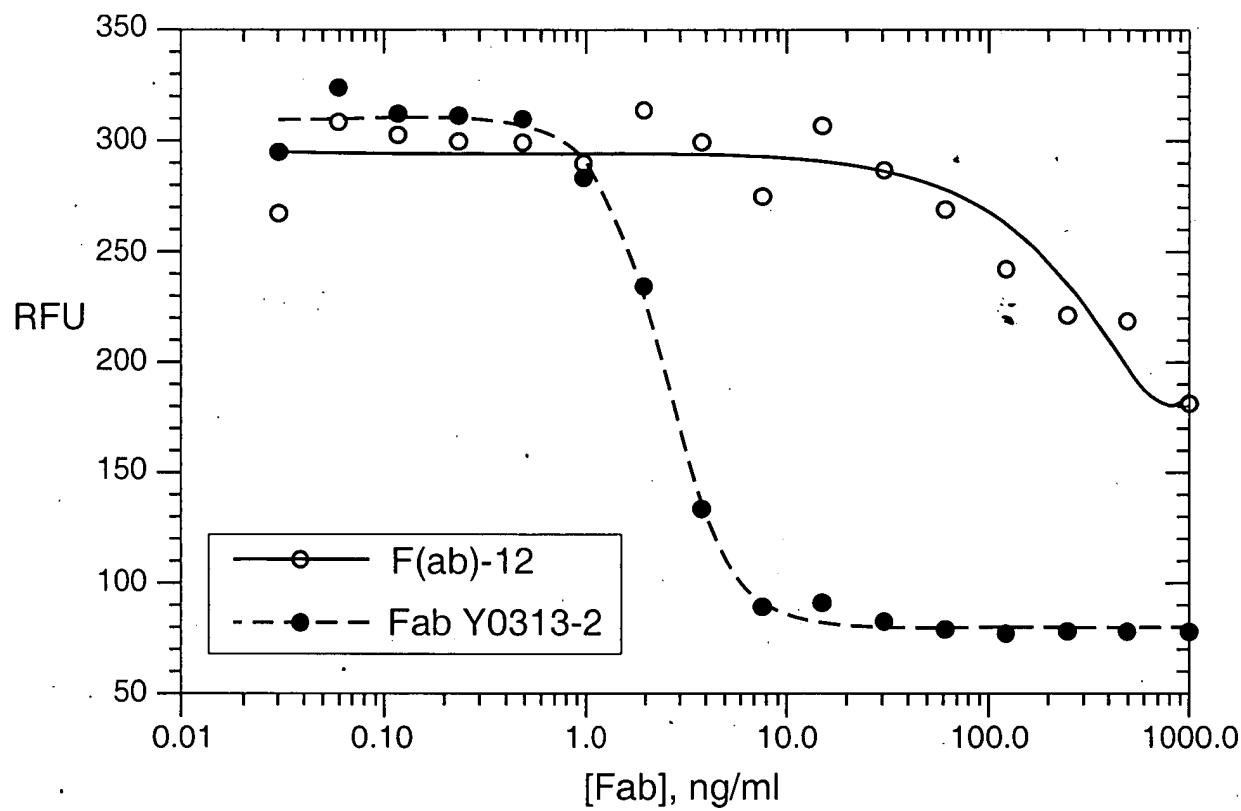
**FIG.- 1A**

= differences from F(ab)-12

F (ab) -12	EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVR	10	EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVR	20
Y0192		Y0192		
Y0238-3	EVQLVESGGGLVQPGGSLRLSCAASGY <del>DFTF</del> YGMNWVR	30	EVQLVESGGGLVQPGGSLRLSCAASGY <del>DFTF</del> YGMNWVR	30
Y0239-19	EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVR	40	EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVR	40
Y0313-2	EVQLVESGGGLVQPGGSLRLSCAASGY <del>DFTF</del> YGMNWVR	50	EVQLVESGGGLVQPGGSLRLSCAASGY <del>DFTF</del> YGMNWVR	50
		CDR - H1		CDR - H1
		60	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	60
		70	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	70
Y0192	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	80	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	80
Y0238-3	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	90	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	90
Y0239-19	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	100	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA	100
Y0313-2	QAPGKGLEWVGWINTTYTGEPTYAADEFKRRFTFSLDTSKSTA			
			CDR - H2	CDR - H2
			CDR - 7	CDR - 7
F (ab) -12	YLQMNSLRAEDTAVYYCAKYPHYYG---SSHWWYFDVWGQQGTL		YLQMNSLRAEDTAVYYCAKYPHYYG---SSHWWYFDVWGQQGTL	(SEQ ID NO:96)
Y0192	YLQMNSLRAEDTAVYYCAKYPHYYG---SSHWWYFDVWGQQGTL		YLQMNSLRAEDTAVYYCAKYPHYYG---SSHWWYFDVWGQQGTL	(SEQ ID NO:96)
Y0238-3	YLQMNSLRAEDTAVYYCAKYPHYYG---SSHWWYFDVWGQQGTL		YLQMNSLRAEDTAVYYCAKYPHYY <del>VNERKSHWWYFDVWGQQGTL</del>	(SEQ ID NO:97)
Y0239-19	YLQMNSLRAEDTAVYYCAKYPHYY <del>VNERKSHWWYFDVWGQQGTL</del>		YLQMNSLRAEDTAVYYCAKYPHYY <del>VNERKSHWWYFDVWGQQGTL</del>	(SEQ ID NO:98)
Y0313-2	YLQMNSLRAEDTAVYYCAKYPHYY <del>VNERKSHWWYFDVWGQQGTL</del>		YLQMNSLRAEDTAVYYCAKYPHYY <del>VNERKSHWWYFDVWGQQGTL</del>	(SEQ ID NO:99)
			CDR - H3	CDR - H3

**FIG.- 1B**

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**FIG.\_2**

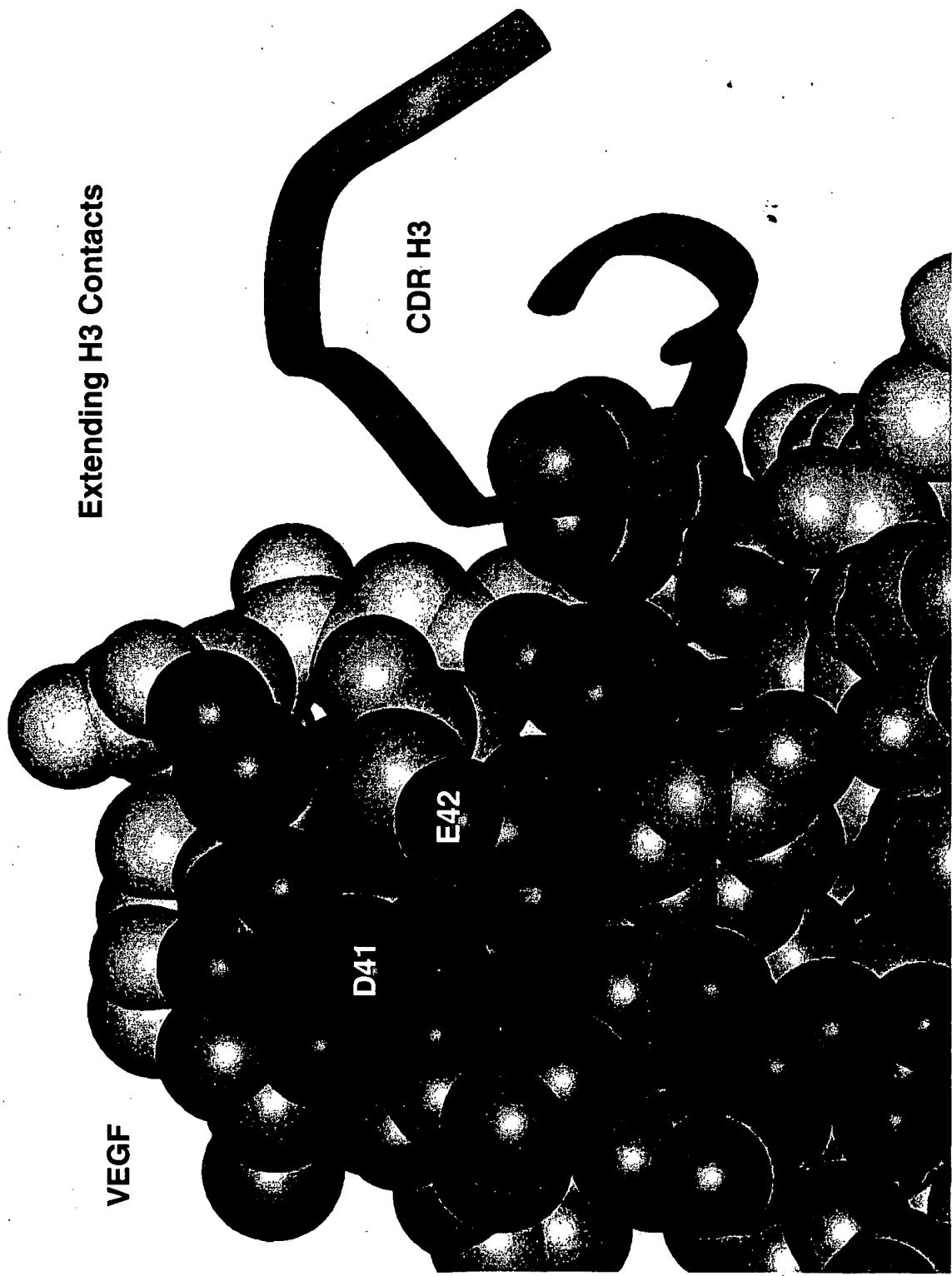
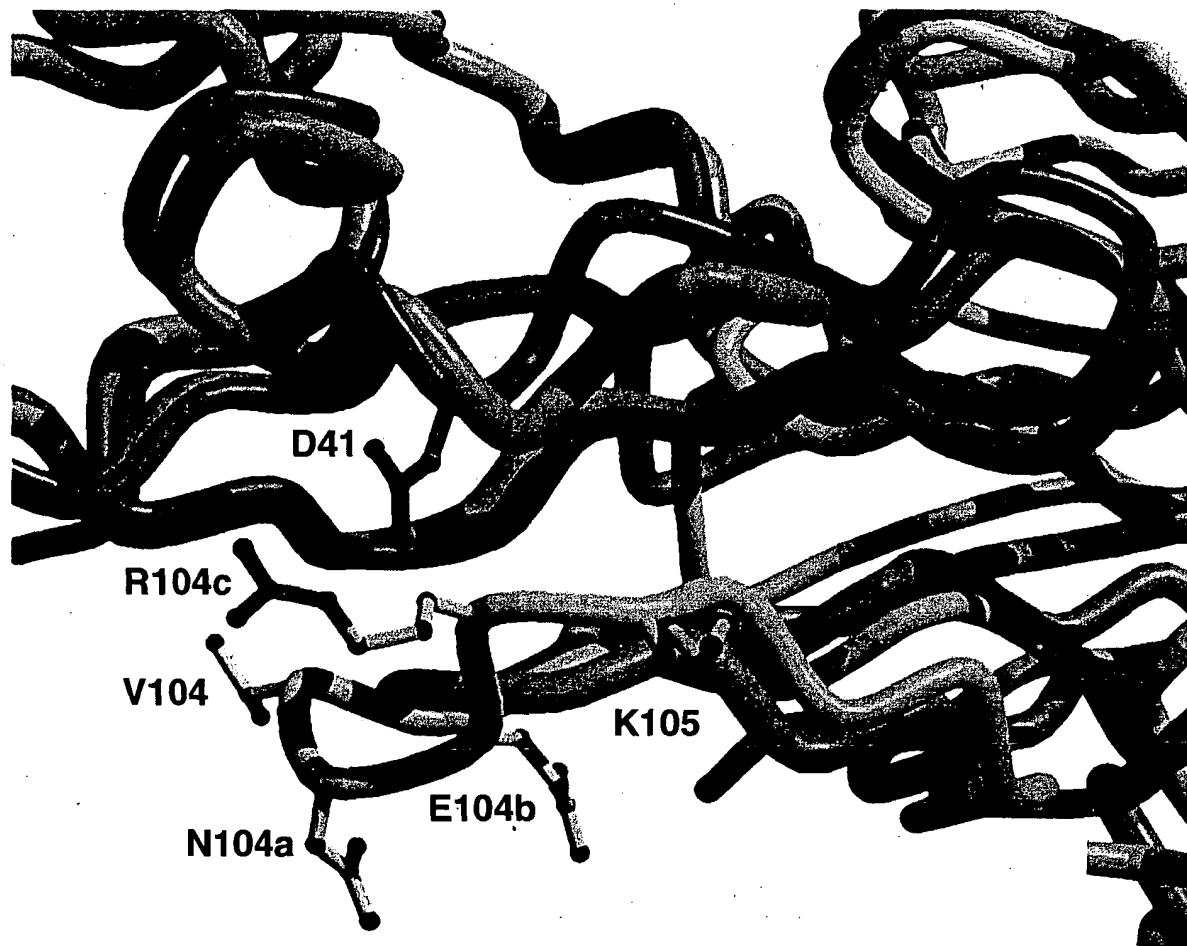


FIG.\_3



**FIG.\_4**

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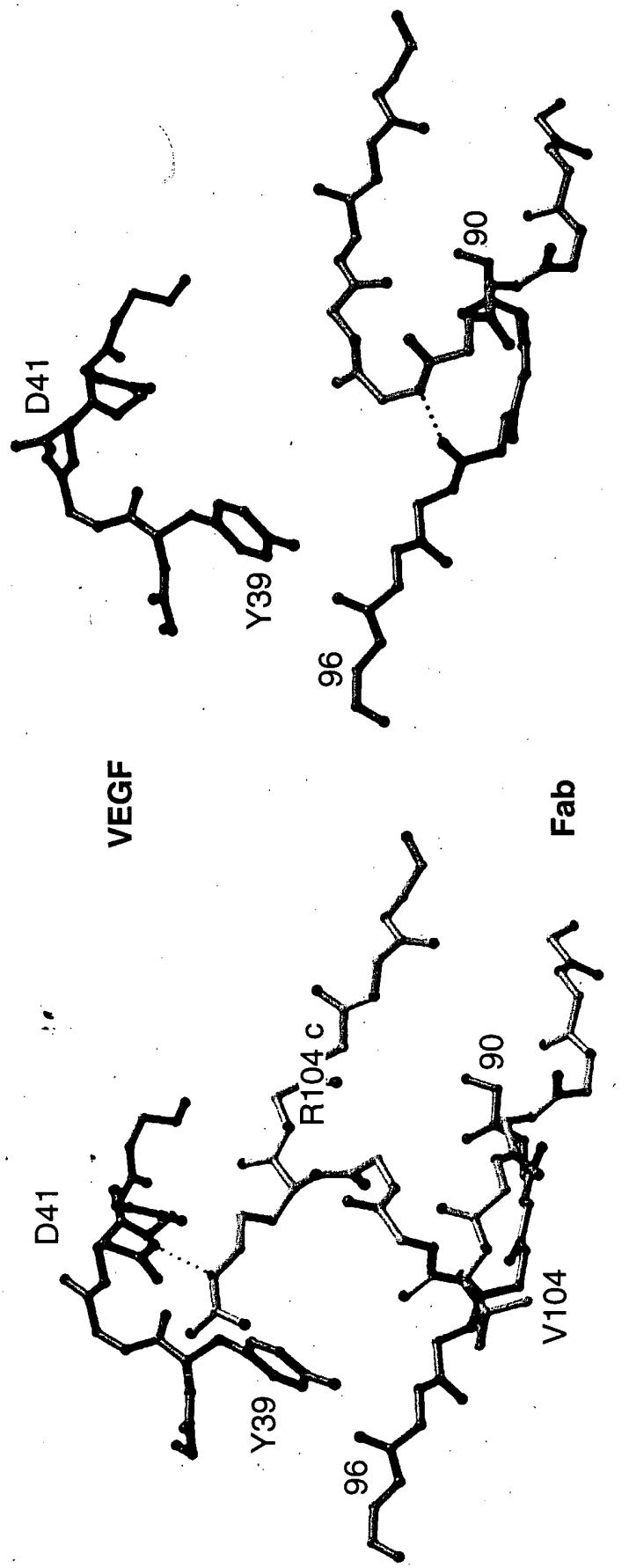


FIG.-5